

area and perimeter

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Storyboard Description:

- Panel 1:** Mick is on a lawn. A speech bubble says: "These grasses are making it difficult for me to walk." Another says: "The grass is making me unable to walk as it is prickling me." Mick decides to take a walk in the lawn near by.
- Panel 2:** Mick is thinking. A thought bubble shows a lawn with a path and says: "LA...LALAA". Mick decides to put fence along the inner and outer rectangle and create a pavement for the walking track.
- Panel 3:** Mick is thinking. A speech bubble says: "How will I calculate the area?" Another says: "But how will I do it? I don't know the length and width I don't know the area as well to put a pathway." John lets Mick know.
- Panel 4:** John asks Mick: "What will I do now?" Mick replies: "Hello Mick! How are you doing?" John finds Mick sad and decides to talk to him.
- Panel 5:** John asks: "You look worried? What happened?" Mick replies: "The thing is..." Mick starts narrating the problem.
- Panel 6:** John says: "Oh! Don't worry first lets fix the fence." Mick replies: "I will help you in finding the length and breadth of the inner and outer rectangle." John says: "Ahhh! Thank you so much John."
- Panel 7:** John asks: "Do you have instrument to measure the length and breadth?" Mick replies: "Mmmm... I don't think so. Can we use a meter scale to measure?" Mick searches the store room to check if he could find something to measure with.
- Panel 8:** Mick says: "No a scale won't work as the length is quite longer the scale will take time to measure." John says: "Look! Look! I found the measuring tape which could be used to measure the length."
- Panel 9:** John and Mick measure the length and width using the tape.
- Panel 10:** Mick lists measurements: Length of outer rectangle = 20m, Length of the inner rectangle = 15m, Breadth of the outer rectangle = 10m, Breadth of the inner rectangle = 10m.
- Panel 11:** "Fence Requirement is as follows". Perimeter of the outer fence = $2 * (l + b) = 2 * (20 + 15) = 2 * 35 = 70$ meters. A diagram shows a 20m by 15m rectangle.
- Panel 12:** "Fence Requirement is as follows". Perimeter of the inner fence = $2 * (l + b) = 2 * (15 + 10) = 2 * 25 = 50$ meters. A diagram shows a 15m by 10m rectangle.
- Panel 13:** John says: "Here you go with the length and the breadth and the perimeter of your rectangular farm." Mick replies: "Thank you so much, but how will I calculate the area using these data?" John says: "It should be easy for you."
- Panel 14:** Both Mick and John are sad that their efforts of measuring the length are in vain. They start thinking of some solution to find the area of the walking track.
- Panel 15:** John asks: "Can you help Mick and John find the area and perimeter of the lawn and the walking track?"
- Panel 16:** "Area of the outer rectangle = $l * b = 20m * 15m = 300$ meter square". A diagram shows a 20m by 15m rectangle.
- Panel 17:** "Area of the inner rectangle = $l * b = 15m * 10m = 150$ meter square". A diagram shows a 15m by 10m rectangle.
- Panel 18:** "Area for the pavement required is the shaded portion in white". A diagram shows a 20m by 15m rectangle with a 15m by 10m rectangle inside, and the area between them shaded.
- Panel 19:** "Hence, the area required is = Area of the outer rectangle - area of the inner rectangle = 300 meter square - 150 meter square = 150 meter square".
- Panel 20:** A "Thank You" sign on a stage.

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